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| FORM PTO-1449 (REV. 7-80) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 010069 | SERIAL NO. 09/874,661 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT Wengler | |
| DATE MAILED: March 07, 2003 | | FILING DATE 06/04/2001 | GROUP 2681 |

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPRO- PRIATE |
|----------------------|------------------|------------|-----------------------|-------|--------------|------------------------------------|
| | A1 5 9 0 5 4 6 7 | 05/18/1999 | Narayanaswamy, et al. | 343 | 702 | 07/25/1997 |
| | A2 | | | | | |
| | A3 | | | | | |
| | A4 | | | | | |
| | A5 | | | | | |
| | A6 | | | | | |
| | A7 | | | | | |
| | A8 | | | | | |

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FOREIGN PATENT DOCUMENTS

| *EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | COUNTRY | NAME | CLASS | SUB CLASS |
|----------------------|---------------|--------------------------|-----------------------|----------------|--|-------|--------------|
| <i>AMB</i> | B1 | 9 4 0 9 5 6 8 | 04/28/1994 | PCT | E-Systems, Inc. | | |
| <i>↓</i> | B2 | 9 7 2 4 8 1 8 | 07/10/1997 | PCT | QUALCOMM Incorporated | | |
| | B3 | 9 9 2 7 6 5 9 | 06/03/1999 | PCT | Telefonaktiebolaget LM-Ericsson | | |
| | B4 | 1 0 9 1 4 4 7 | 04/11/2001 | EP | Siemens Aktiengesellschaft | | |
| | B5 | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

| | | |
|---|-----------------------|--------------------------------|
| C1 | | |
| C2 | | |
| C3 | | |
| EXAMINER | <i>Kevin M. Brand</i> | DATE CONSIDERED <i>8/22/04</i> |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | |

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|---|--|---------------------------|-----------------|
| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. | APPLICATION NO. |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | 010069 | 09/874,661 |
| DATE MAILED: 09/05/2001 | | APPLICANT WENGLER | |
| | | FILING DATE 06/04/2001 | GROUP 2681 |

U.S. PATENT DOCUMENTS

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| | A5 | | | | | | |
| | A6 | | | | | | |
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| | A10 | | | | | | |

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|---------------------|-----------|-----------------|------|---------|------|-------|--------------|
| | B1 | | | | | | |
| | B2 | | | | | | |
| | B3 | | | | | | |
| | B4 | | | | | | |
| | B5 | | | | | | |

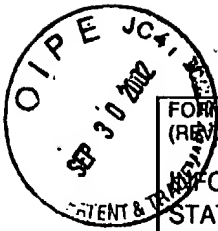
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

| | | |
|------------------------------|----|--|
| <i>Am3</i> | C1 | J. Liberti, Jr. et al. "Smart Antennas for Wireless Communications," IS-95 and Third Generation CDMA Applications, CH. 3, Prentice Hall PTR, Upper Saddle River, NJ 07458 (pgs. 101-111) |
| <i>↓</i> | C2 | J. Liberti, Jr. et al. "Smart Antennas for Wireless Communications," IS-95 and Third Generation CDMA Applications, CH. 8, Prentice Hall PTR, Upper Saddle River, NJ 07458 (pgs. 215-251) |
| EXAMINER <i>Rubin M Bond</i> | | DATE CONSIDERED <i>8/22/01</i> |

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Sheet 1 of 1FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(REV 7-80) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

DATE MAILED: 09/24/2002

ATTY. DOCKET NO.

010069

APPLICATION NO.

09/874,661

APPLICANT

WENGLER

FILING DATE

06/04/2001

GROUP

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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPRO- PRIATE |
|---------------------|-----------|-----------------|------------|----------------------|-------|--------------|---------------------------------------|
| <i>RMB</i> | A1 | 5,905,467 | 05/18/1999 | NARAYANASWAMY et al. | | | |
| | A2 | | | | | | |
| | A3 | | | | | | |
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| | A5 | | | | | | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | COUNTRY | NAME | CLASS | SUB CLASS |
|---------------------|-----------|-----------------|------------|---------|---|-------|--------------|
| <i>RMB</i> | B1 | 99/27659 | 06/03/1999 | WO | TELEFONAKTIEBOLAGET LM ERICSSON (SE) | | |
| <i>RMB</i> | B2 | 1091447A1 | 04/11/2001 | EP | SIEMENS AG (DE) | | |
| | B3 | | | | | | |
| | B4 | | | | | | |
| | B5 | | | | | | |

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| | C1 | | |
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| EXAMINER | Kevin M Bond | | DATE CONSIDERED 8/22/04 |
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